

L37 ANSWER 3 OF 10 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1999-511524 [43] WPIX
DNN N1999-381400
TI Gradient magnetic field generating system in magnetic resonance imaging apparatus using nuclear magnetic resonance spectroscopy - has pair of coils to which current is supplied from power supplies, for generating gradient magnetic field independently.
DC P31 S01
PA (SHIMA) SHIMADZU CORP
CYC 1
PI JP 11221200 A 19990817 (199943)* 5p A61B005-055
ADT JP 11221200 A JP 1998-39710 19980205
PRAI JP 1998-39710 19980205
IC ICM A61B005-055
ICS G01R033-389
AB JP 11221200 A UPAB: 19991020
NOVELTY - Current is supplied from power supplies (21,22) to pair of coils (12,13) for generating gradient magnetic field independently. Current passed to each coil is controlled by a controller (23).
USE - In magnetic resonance imaging apparatus using NMR spectroscopy.
ADVANTAGE - Eccentricity of magnetic field center stipulated by gradient magnetic field is performed arbitrarily.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of MR imaging apparatus. (12,13) Coils; (21,22) Power supplies; (23) Controller.
Dwg.1/6
FS EPI GMPI
FA AB; GI
MC EPI: S01-E02A

Aug 17, 1999

L45 ANSWER 1 OF 1 JAPIO (C) 2004 JPO on STN
 AN 1999-221200 JAPIO
 TI MR IMAGING DEVICE
 IN MIURA YOSHIAKI
 PA SHIMADZU CORP
 PI JP 11221200 A 19990817 Heisei
 AI JP 1998-39710 (JP10039710 Heisei) 19980205
 PRAI JP 1998-39710 19980205
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1999
 IC ICM A61B005-055
 ICS G01R033-389

AB PROBLEM TO BE SOLVED: To dislocate the center of magnetic field specified by an inclined magnetic field to any eccentric position.
 SOLUTION: A pair of inclining coils 12 and 13 to form an inclined magnetic field is supplied with a current from two inclination power supplies 21 and 22 which are controllable independently, and the currents supplied are changed to any values by a controller 23, and thereby the center of the magnetic field (position where the intensity of the synthetic inclined magnetic field becomes zero) synthesized by the two coils 12 and 13 is shifted.

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Gradient Coils

"inclining" is
mistranslation of "gradient"

See attached DUPPI abstract.

31/3,AB,K/6 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

05652094

MAGNETIC RESONANCE INSPECTING SYSTEM AND METHOD

PUB. NO.: 09-266894 [JP 9266894 A]

PUBLISHED: October 14, 1997 (19971014)

INVENTOR(s): TSUDA MUNETAKA

APPLICANT(s): HITACHI MEDICAL CORP [420143] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 08-079112 [JP 9679112]

FILED: April 01, 1996 (19960401)

ABSTRACT

PROBLEM TO BE SOLVED: To provide an MRI system which reduces image distortions to enable high-speed photographing technique, fat-signal-control photographing technique, and high-resolution spectrum measuring technique by enhancing the substantial uniformity of a static magnetic field inside the human body.

SOLUTION: A plurality of shim coils 102 and inclined field coils 104 have respective independent power sources 103, 105 connected thereto. The power sources are controlled in action by a calculator 112 to correct the uniformity of a static magnetic field produced by magnets. The power sources 103, 105 thus drive the coils with currents obtained by the combination of direct and alternating currents, producing a corrected rotating magnetic field. Therefore, the uniformity of the static magnetic field at the examined part of the examinee 108 can be substantially enhanced.

INTL CLASS: A61B-005/055; G01R-033/385

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